

FORM PTO-147 (REV. 7-01)	APR 26 2004 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	AT.TY. DOCKET NO. E100.12.12	SERIAL NO. 10/646,357
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Craig N. Hansen and Lonnie J. Helgeson	
		FILING DATE August 22, 2003	GROUP 3764

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

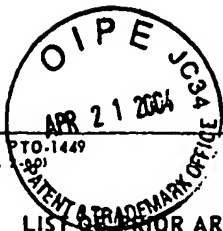
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"Nitrogen Washout during Tidal Breathing with Superimposed High-Frequency Chest Wall Oscillation," Am. Review of Respiratory Disease, V. 132(2), August 1985, pp.350-353.
AS	"High Frequency Chest Wall Oscillation in Patients with Chronic Air-Flow Obstruction," Am. Review of Respiratory Disease, V. 132(2), December 1987, pp. 1355-1359.
AT	

EXAMINER <i>And Date</i>	DATE CONSIDERED 8/2/6
-----------------------------	--------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet 1 of 2

FORM PTO-1449 (REV. 1-89)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. E100.12.12	SERIAL NO. 10/646,357
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT CRAIG N. HANSEN and LONNIE J. HELGESON	GROUP 3764
		FILING DATE August 22, 2003	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Q	AR	"High-Frequency Chest Wall Oscillation," Chest, February 1986, pp. 218-223
Q	AS	"Effect of Chest Wall Oscillation on Mucus Clearance: Comparision of Two Vibrators," Pediatric Pulmonology, March 1989, pp. 122-126
Q	AT	"The Long-Term Effect of High-Frequency Chest Compression Therapy on Pulmonary Complications of Cystic Fibrosis," Pediatric Pulmonology, November 1991, pp. 265-271

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-90)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

E100.12.12

SERIAL NO.

10/646,357

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

CRAIG N. HANSEN and LONNIE J. HELGESON

FILING DATE

August 22, 2003

GROUP

3764


U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	"Effects of high frequency chest compression on respiratory systems mechanics in normal subjects and cystic fibrosis patients," Canadian Respiratory Journal, March 1995, pp. 40-46.
	AS	
	AT	

EXAMINER



DATE CONSIDERED

8/2/6

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

APR 09 2004
 U.S. DEPARTMENT OF COMMERCE
 PATENT AND TRADEMARK OFFICE

FORM PTO-141 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. E100.12.12		SERIAL NO. 10/646,357	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Craig N. Hansen and Lonnie J. Helgeson			
				FILING DATE August 22, 2003		GROUP 3764	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	AA	Des. 379,396	05/20/1997	Pongo et al			
	AB	Des. 456,591	05/07/2002	Hansen			
	AC	Des. 461,897	08/20/2002	Hansen et al			
	AD	Des. 469,876	02/04/2003	Hansen et al			
	AE	2,223,570	12/03/1940	McMillin			
	AF	2,354,397	07/25/1944	Miller			
	AG	2,588,192	03/04/1952	Akerman et al			
	AH	2,707,948	05/10/1955	Emerson			
	AI	2,762,366	09/11/1956	Huxley III et al			
	AJ	2,779,329	01/29/1957	Huxley III et al			
	AK	2,780,222	02/05/1957	Polzin et al			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL	1,225,880	09/1987	Canada			
	AM						
	AN						
	AO						
	AP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
DA	AR	"Chronic bronchial asthma and emphysema," Geriatrics, June 1996, pp. 139-158					
DA	AS	"Enhanced Tracheal Mucus Clearance with High Frequency Chest Wall Compression," Respiratory Disease, Sept. 1983, pp. 511-515					
DA	AT	"Peripheral mucociliary clearance with high-frequency chest wall compression." Journal of Applied Physiology, April 1985, pp.					
EXAMINER				DATE CONSIDERED 1157-1163			
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. E100.12.12		SERIAL NO. 10/646.357	
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT Craig N. Hansen and Lonnie J. Helgeson			
				FILING DATE August 22, 2003		GROUP 3764	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
D	AA	2,869,537	01/20/1959	Chu			
	AB	2,899,955	08/19/1959	Huxley III et al			
	AC	3,043,292	07/10/1962	Mendelson			
	AD	3,063,444	11/13/1962	Jobst			
	AE	3,078,842	02/26/1963	Gray			
	AF	3,120,228	02/04/1964	Huxley III			
	AG	3,179,106	04/20/1965	Meredith			
	AH	3,310,050	03/21/1967	Goldfarb			
	AI	3,545,017	12/08/1970	Cohn			
	AJ	3,566,962	03/02/1971	Schuh			
	AK	3,577,977	05/11/1971	Ritzinger Jr et al			
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	AL						
	AM						
	AN						
	AO						
	AP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
D	AR	"Tracheal mucus clearance in high-frequency oscillation: effect of peak flow rate bias," The European Respiratory Journal,					
	AS	January 1990, pp. 6-13					
D	AT	"High-frequency Chest Compression System to Aid in Clearance of Mucus from the Lung," Biomedical Instrumentation & Technology,					
EXAMINER				DATE CONSIDERED July 1990, pp. 289-294.			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

FORM PTO-1449 (REV. 7-01)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. E100.12.12		SERIAL NO. 10/646,357	
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT Craig N. Hansen and Lonnie J. Helgeson			
				FILING DATE August 22, 2003		GROUP 3764	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
CA	AA	3,633,655	03/15/1972	White et al			
	AB	3,760,301	09/25/1973	Borgeas			
	AC	3,993,053	11/23/1976	Grossan			
	AD	4,004,579	01/25/1977	Dedo			
	AE	4,120,297	10/17/1978	Rabischong et al			
	AF	4,135,503	01/23/1979	Romano			
	AG	4,178,922	12/13/1979	Curlee			
	AH	4,186,732	02/05/1980	Christoffel			
	AI	4,375,217	03/01/1983	Arkans			
	AJ	4,402,312	09/06/1983	Villari et al			
	AK	4,424,306	01/10/1984	Newman et al			
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	AL						
	AM						
	AN						
	AO						
	AP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
CA	AR	"Preliminary Evaluation of High-Frequency Chest Compression for					
		Secretion Clearance in Mechanically Ventilated Patients,"					
	AS	Respiratory Care, October 1993, pp. 1091-1097.					
DB	AT	"Artificial Ventilation," Technion Institute of Technology Faculty					
		of Medicine, date unknown.					
EXAMINER				DATE CONSIDERED			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

FORM PTO-1449 (REV. 7-01)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. E100.12.12		SERIAL NO. 10/646,357	
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT Craig N. Hansen and Lonnie J. Helpeson			
				FILING DATE August 22, 2003		GROUP 3764	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA	4,523,579	06/18/1985	Barry				
AB	4,577,626	03/25/1986	Marukawa et al				
AC	4,590,925	05/27/1986	Dillon				
AD	4,621,621	11/11/1986	Marsalis				
AE	4,637,074	01/20/1987	Taheri				
AF	4,676,232	06/30/1987	Olsson et al				
AG	4,682,588	07/28/1987	Curlee				
AH	4,815,452	03/28/1989	Hayek				
AI	4,838,263	06/13/1989	Warwick et al				
AJ	4,840,167	06/20/1989	Olsson et al				
AK	4,928,674	05/20/1990	Halperin et al				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL							
AM							
AN							
AO							
AP							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
AR							
AS							
AT							
EXAMINER				DATE CONSIDERED			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. E100.12.12		SERIAL NO. 10/646,357	
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT Craig N. Hansen and Lonnie J. Helsing			
				FILING DATE August 22, 2003		GROUP 3764	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA	4,930,498	06/05/1990	Hayek				
AB	4,952,095	08/23/1990	Walters				
AC	4,977,839	12/18/1990	Budd				
AD	5,007,412	04/16/1991	DeWall				
AE	5,055,052	10/03/1991	Johnsen				
AF	5,056,505	10/15/1991	Warwick et al				
AG	5,222,478	06/29/1993	Scarberry et al				
AH	5,235,967	08/17/1993	Arbisi et al				
AI	5,245,990	09/21/1993	Bertinin				
AJ	5,370,603	12/06/1994	Newman				
AK	5,453,081	09/26/1995	Hansen				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL							
AM							
AN							
AO							
AP							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
AR							
AS							
AT							
EXAMINER				DATE CONSIDERED			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. E100.12.12	SERIAL NO. 10/646.357
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Craig N. Hansen and Lonnie J. Helgeson	
		FILING DATE August 22, 2003	GROUP 3764

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
AR	AA	5,490,820	02/13/1996	Schock et al		
	AB	5,494,469	02/27/1996	Heath et al		
	AC	5,569,170	10/20/1996	Hansen		
	AD	5,674,269	10/07/1997	Augustine		
	AE	5,769,797	06/23/1998	Van Brunt et al		
	AF	5,769,800	06/23/1998	Gelfand et al		
	AG	5,938,627	08/17/1999	Hickman		
	AH	6,036,662	03/14/2000	Van Brunt et al		
	AI	6,155,996	12/05/2000	Van Brunt et al		
	AJ	6,254,556	07/03/2001	Hansen et al		
	AK	6,370,316	04/30/2002	Van Brunt et al		

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	AL						
	AM						
	AN						
	AO						
	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR		
AS		
AT		

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. E190.12.12		SERIAL NO. 10/646,357	
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT Craig M. Hansen and Lonnie J. Helgeson			
				FILING DATE August 22, 2003		GROUP 3764	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA	6,471,663	10/29/2002	Van Brunt et al				
AB	6,488,641	12/03/2002	Hansen				
AC	6,547,749	04/15/2003	Hansen				
AD	6,605,050	08/12/2003	Hansen				
AE							
AF							
AG							
AH							
AI							
AJ							
AK							
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
AL							
AM							
AN							
AO							
AP							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
AR							
AS							
AT							
EXAMINER <i>D. D. P. P.</i>				DATE CONSIDERED <i>8/16</i>			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							